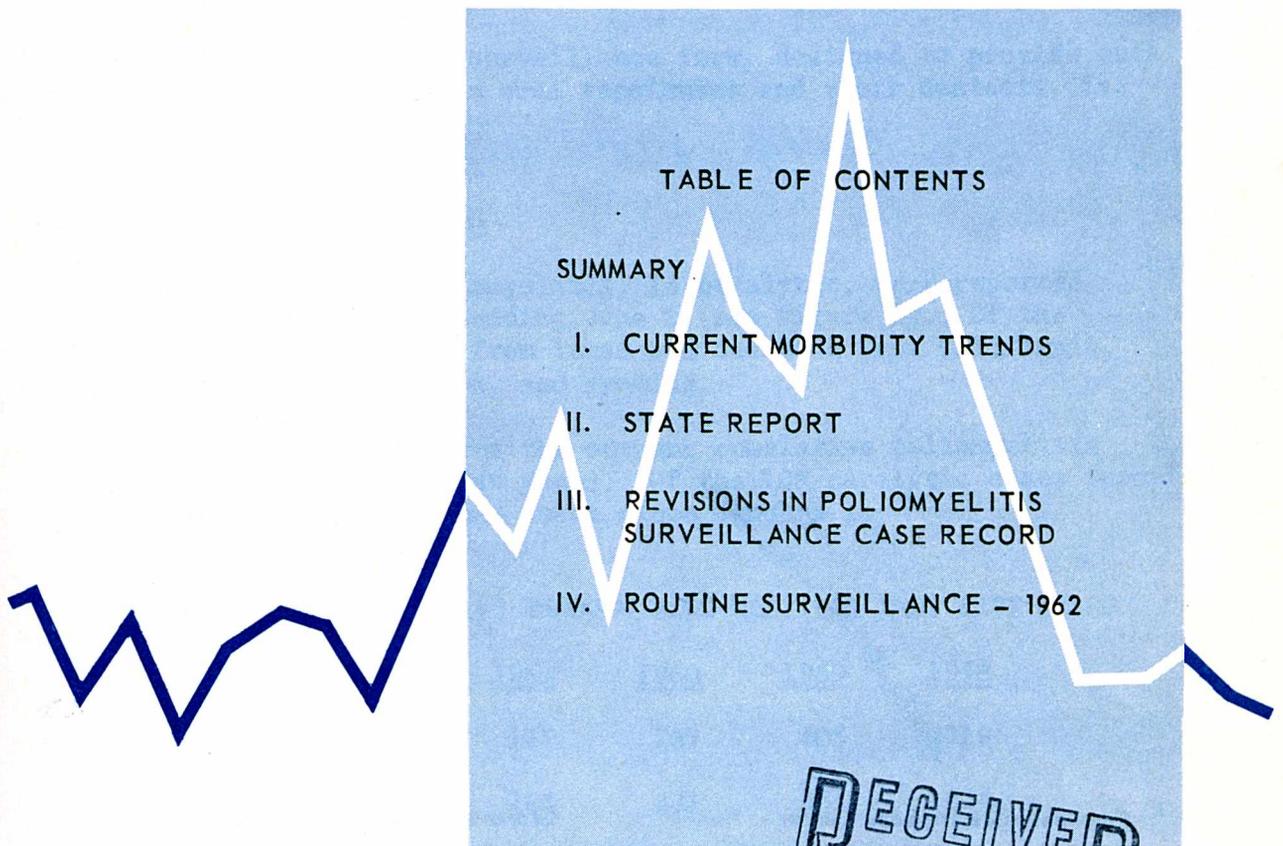


COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE



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PREFACE

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to:
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SUMMARY

Poliomyelitis incidence for the nation remains below the level noted for 1961 and previous years. Texas, specifically South Texas, marks the only area noting occurrence of cases to any degree whatsoever with four counties in that state having had three or more cases this year. The use of type specific oral vaccine in this area is described in Section 2.

The new poliomyelitis surveillance form, designed to provide data on cases of poliomyelitis in oral vaccinees and their contacts, is presented in Section 3.

1. CURRENT MORBIDITY TRENDS

Eighteen cases of poliomyelitis, 14 paralytic, were reported during the two-week period ending June 2 (see Figure 1). Of the paralytic cases, nine were from Texas and one each from California, Kentucky, Missouri, New York, and Wyoming.

The table below compares the current cumulative poliomyelitis experience with those of past years. Of the 108 paralytic cases reported thus far in 1962, 85 have had onset since January 1.

POLIO (Cumulated Weekly) THROUGH 22ND WEEK FOR PAST FIVE YEARS

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	108	127	237	405	219
Total	146	185	331	581	424

2. STATE REPORT - TEXAS

The dominant position which Texas takes in the reporting of poliomyelitis for the week ending June 2, (9 of the 11 cases reported in the country) reflects the major role played by this state in the 1962 experience with poliomyelitis in the United States.

Through June 2, 45 cases of poliomyelitis, 39 paralytic, have been reported from Texas. This represents 46% of the paralytic cases with 1962 onset reported throughout the nation.

Within Texas, the southern counties of Bexar, Webb and Hidalgo account for 22 cases, while the nearby counties of Starr, Cameron and Frio add 6 more to the total. The map of Texas depicts paralytic cases in Texas with 1962 onset. Type one poliovirus has been repeatedly isolated in cases from Bexar, Webb, and Hidalgo Counties.

This week 9 cases, 8 paralytic, were reported. Six of these cases were reported from the South Texas area, 4 being from Frio County which lies between San Antonio and Laredo. Complete epidemiologic details are not available as yet on the Frio County cases; however, all four were preschool age, unvaccinated children living in the town of Dilley (population - 2,118), three of the four children residing in the same neighborhood.

Dr. Van C. Tipton, Chief, Communicable Disease Division, State Department of Health, reports that the first Frio County case had onset of illness on May 26, and was first reported to the health authorities on May 30, when the child was transferred to a San Antonio hospital in extremis with bulbo-spinal poliomyelitis. On the following day, two further cases of paralytic poliomyelitis and another fatality were brought to light. By that evening, May 31, the community had been alerted and 2,200 persons had received type one oral vaccine from the CDC epidemic reserve.

The mass use of type-specific oral vaccine to avert further poliomyelitis this summer took place in Laredo (Webb County) on May 27-30. A total of 62,500 persons received the vaccine in this program. The administration of the vaccine in San Antonio (Bexar County) and Dilley (Frio County) took place on May 31 and following days. Over 610,000 persons received the vaccine in these areas. There have been no additional cases of poliomyelitis reported from these counties since the immunization campaign.

Further evaluation in the other South Texas counties which have noted poliomyelitis is being carried out this week by the Texas State Board of Health, and oral vaccine campaigns will be instituted if indicated.

(1.2) State

PHS 4.112 (CDC)
REV. 5-62

DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
COMMUNICABLE DISEASE CENTER

FORM APPROVED
BUDGET BUREAU NO. 68-R573.3

(3.6) State Case No.

POLIOMYELITIS SURVEILLANCE CASE RECORD

(7.8) Patient's Name - Last, First, Middle

(9.10) Age

(11) Race

(12) Sex

PRELIMINARY REPORT

Present Street Address

City or Town

(13.16) County

(17.20) Date of First Symptoms

(22.23) Inactivated Vaccine (Salk)
 Not Vaccinated

(24.25) Oral Vaccination (Sabin)
 Not Vaccinated

Type of Virus

Date of Vaccination

(21) Preliminary Diagnosis

- (1) Nonparalytic Polio
- (2) Paralytic Polio

TYPE OF PARALYSIS

- (3) Bulbar
- (4) Spinal
- (5) Bulbo-Spinal

Dose

1

2

3

4

5

If Salk inoculation within 30 days prior to onset:

Give Details →

Type I

Type II

Type III

Unknown

Household contact with oral vaccinee within previous 60 days: Yes No

(If yes, give details on reverse side)

Site of Injection

Site(s) of First Paralysis

Manufacturer:

Lot No.:

(26.30) Specimens submitted for virus study to (name of laboratory)

LABORATORY REPORT

Specimen

Collection Date

Test System

Results

(31.37) Blood specimens submitted to (name of laboratory)

Date of Blood Sample

Neutral. Titer

I

II

III

Comp. Fix. Titer

I

II

III

Other Serological Tests

FINAL REPORT

(38) Clinical Status 60 Days or Longer After Onset

- (1) Complete Recovery, No Residual Paralysis
- (2) Minor Involvement Only
- (3) Significant Disability
- (4) Severely Disabled (bed, wheelchair, extensive bracing)
- (5) Death - date _____
Cause of Death: _____
- (6) Never any Paralysis (Nonparalytic)

(39) Final Classification

- (1) Paralytic Polio with Residual Paralysis
- (2) Paralytic Polio, No Residual Paralysis
- ASEPTIC MENINGITIS SYNDROME:
- (3) Poliovirus (Nonparalytic Polio)
- (4) ECHO
- (5) Coxsackie
- (6) Other (specify) _____
- (7) Aseptic Meningitis, Unknown Etiology
- (8) Other Final Diagnosis _____

FINAL APPRAISAL BY

TITLE

DATE

3. REVISIONS IN POLIOMYELITIS SURVEILLANCE CASE RECORD

With the increasing use of oral polio vaccines, it is particularly desirable to maintain a continuing evaluation of safety and effectiveness of these agents similar to the evaluations of inactivated vaccine carried out in recent years. To this end, certain revisions have been made in the standard Poliomyelitis Surveillance Case Record and supplies of these revised forms have been sent to all State Epidemiologists. A copy of the form is included on the preceding page.

The section on poliomyelitis vaccination has been redesigned to obtain data on previous administration of both inactivated and oral vaccines, on the use of either vaccine recently prior to disease onset, and on close personal contact of the patient with a recent oral vaccinee. Data on the manufacturer and lot number of vaccine involved are also sought. This information should paint a reasonably adequate epidemiologic picture of the probability of vaccinee-contact cases.

Finally, a minor revision in the category "clinical status 60 days or longer after onset" has been made to facilitate coding and machine tabulations.

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

A. Cases with Onset Within 30 Days of Vaccination (Inactivated)

Through June 2 there have been no under-30-day cases (IPV) reported to the Poliomyelitis Surveillance Unit.

B. Cases with Onset Within 30 Days of Vaccination (Oral)

The case of paralytic poliomyelitis from Oregon (see PSU Report No. 257), a 48 year old female who had onset of disease on May 8 with subsequent paralysis in both legs, had received Type I oral vaccine on April 1, and Type III on April 28. Manufacturer and lot numbers of the vaccine administered to this case have been reported. Correlation will be made with similar information on any additional cases of poliomyelitis occurring in recent vaccinees or on cases having household contact with a recent oral vaccinee. Summaries of these data will appear at regular intervals in forthcoming PSU reports.

Figure 1

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1957, 1959, and 1961

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS
AND COMMUNICABLE DISEASE CENTER

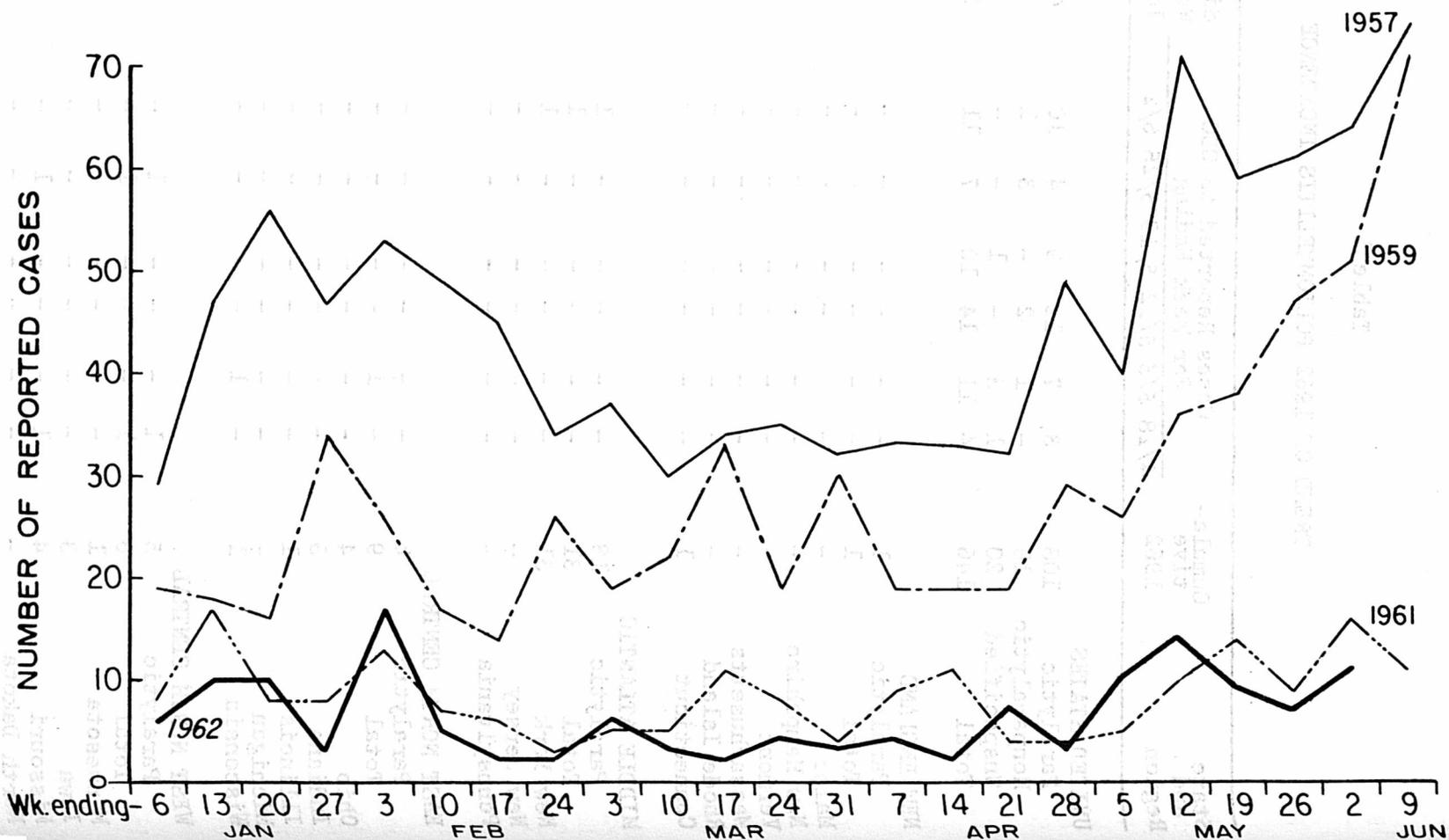


Table 1 (Continued)

State and Region	Cumula- tive 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		4/28	5/5	5/12	5/19	5/26	6/2		1961	1960	1959
SOUTH ATLANTIC											
Paralytic	8	1	-	1	1	-	-	3	3	5	37
Total	10	1	1	1	1	-	-	4	3	7	47
Delaware	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-
D. C.	-	-	-	-	-	-	-	-	-	-	-
Virginia	2	1	-	-	-	-	-	1	-	-	9
West Virginia	-	-	-	-	-	-	-	-	-	1	5
North Carolina	2	-	1	-	-	-	-	1	1	2	3
South Carolina	1	-	-	-	-	-	-	-	-	1	1
Georgia	2	-	-	1	-	-	-	1	2	-	11
Florida	3	-	-	-	1	-	-	1	-	3	28
EAST SOUTH CENTRAL											
Paralytic	5	-	-	-	-	-	1	1	3	4	12
Total	7	-	1	-	-	-	1	2	4	5	20
Kentucky	2	-	-	-	-	-	1	1	1	1	2
Tennessee	2	-	1	-	-	-	-	1	1	1	8
Alabama	1	-	-	-	-	-	-	-	-	-	3
Mississippi	2	-	-	-	-	-	-	-	2	3	7
WEST SOUTH CENTRAL											
Paralytic	45	-	5	7	6	1	8	27	11	11	33
Total	52	-	5	8	6	4	9	32	14	20	52
Arkansas	1	-	-	-	-	-	-	-	-	-	6
Louisiana	5	-	-	-	-	-	-	-	3	9	4
Oklahoma	1	-	-	-	-	1	-	1	-	2	5
Texas	45	-	5	8	6	3	9	31	11	9	37
MOUNTAIN											
Paralytic	6	-	-	1	-	1	-	2	2	1	10
Total	11	1	1	1	1	1	-	5	4	3	15
Montana	2	-	-	-	-	-	-	-	-	2	2
Idaho	-	-	-	-	-	-	-	-	1	-	-
Wyoming	1	-	-	-	-	1	-	1	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	-
New Mexico	4	1	1	-	1	-	-	3	-	-	4
Arizona	3	-	-	1	-	-	-	1	3	1	9
Utah	1	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
PACIFIC											
Paralytic	14	1	2	3	2	1	-	9	15	23	28
Total	17	1	2	4	2	1	-	10	17	25	31
Washington	-	-	-	-	-	-	-	-	5	1	1
Oregon	1	-	-	-	1	-	-	1	2	-	7
California	15	1	2	4	1	1	-	9	9	21	23
Alaska	-	-	-	-	-	-	-	-	-	1	-
Hawaii	1	-	-	-	-	-	-	-	1	2	-
TERRITORY											
Puerto Rico	6	-	-	-	-	-	1	1	2	86	-

